



STATE OF ALABAMA

DEPARTMENT OF FINANCE
DIVISION OF PURCHASING

INVITATION TO BID

INVITATION TO BID NO: 10-R-2219847

REQ. AGENCY : 011001
STATE HEALTH DEPARTMENT
AGENCY REQ. NO. : 011519
T-NUMBER :
DATE ISSUED : 06/30/10
VENDOR NO. :
VENDOR PHONE NO. :
SNAP REQ. NO. : 1442821
BUYER NAME : PAT ANTLE

FOR: DVR SYSTEM(011519)

BUYER PHONE NO. : (334) 242-7253-
PURCHASING PHONE NO: (334) 242-7250

BID MUST BE RECEIVED BEFORE:
DATE: 08/02/10 TIME: 5:00 PM

BIDS WILL BE PUBLICLY OPENED:
DATE: 08/03/10 TIME: 10:00 AM

TO BE COMPLETED BY VENDOR

INFORMATION IN THIS SECTION SHOULD BE PROVIDED, AS APPROPRIATE. BID RESPONSE
MUST BE IN INK OR TYPED WITH ORIGINAL SIGNATURE AND NOTARIZATION.

1. DELIVERY: CAN BE MADE _____ DAYS OR _____ WEEKS AFTER RECEIPT OF ORDER
2. TERMS: _____(DISCOUNTS ARE TAKEN WITHOUT REGARD TO DATE OF PAYMENT.)
3. PRICE VALID FOR ACCEPTANCE WITHIN _____ DAYS.
4. VENDOR QUOTATION REFERENCE NUMBER, IF ANY: _____
(THIS NUMBER WILL APPEAR ON THE PURCHASE ORDER.)
5. E-MAIL ADDRESS: _____
INTERNET WEBSITE: _____
6. GENERAL CONTRACTOR'S LICENSE NO: _____
TYPE OF G.C. LICENSE: _____

***** IMPORTANT NOTE: *****

BIDDERS MUST COMPLY WITH ALL "BID RESPONSE INSTRUCTIONS" ON PAGE 2, TO INCLUDE
ITEM 7 - COPY REQUIREMENT.

RETURN INVITATION TO BID:

US MAIL

STATE OF ALABAMA
DEPARTMENT OF FINANCE
DIVISION OF PURCHASING
P O BOX 302620
MONTGOMERY, AL 36130-2620

COURIER

STATE OF ALABAMA
DIVISION OF PURCHASING
RSA UNION BUILDING
100 N. UNION ST., SUITE 192
MONTGOMERY, AL 36104

SIGNATURE AND NOTARIZATION REQUIRED

I HAVE READ THE ENTIRE BID AND AGREE TO FURNISH EACH ITEM OFFERED AT THE PRICE QUOTED.
I HERBY AFFIRM I HAVE NOT BEEN IN ANY AGREEMENT OR COLLUSION AMONG BIDDERS IN
RESTRAINT OF FREEDOM OF COMPETITION BY AGREEMENT TO BID AT A FIXED PRICE OR TO
REFRAIN FROM BIDDING.

SWORN TO AND

FEIN OR SSN

AUTHORIZED SIGNATURE (INK)

SUBSCRIBED BEFORE ME THIS

COMPANY NAME

TYPE/PRINT AUTHORIZED NAME

_____ DAY OF _____

MAIL ADDRESS

TITLE

NOTARY PUBLIC

CITY, STATE, ZIP

TOLL FREE NUMBER

TERM EXP: _____

PHONE INCLUDING AREA CODE

FAX NUMBER

STANDARD TERMS & CONDITIONS

VENDOR NAME :

VENDOR NUMBER: -

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INVITATION TO BID

OPEN DATE : 08/03/10 TIME: 10:00 AM

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AUTHORITY:

THE DEPARTMENT OF FINANCE CODE OF ADMINISTRATIVE PROCEDURE, CHAPTER 355-4-1 EFFECTIVE DECEMBER 20, 2001 IS INCORPORATED BY REFERENCE AND MADE A PART OF THIS DOCUMENT. TO RECEIVE A COPY CALL (334)242-7250, OR OUR WEBSITE WWW.PURCHASING.ALABAMA.GOV .

INFORMATION AND ASSISTANCE TO MINORITY AND WOMEN-OWNED BUSINESSES IN ACQUIRING M/WBE CERTIFICATION MAY BE OBTAINED FROM THE OFFICE OF MINORITY BUSINESS ENTERPRISE, 1-800-447-4191.

BID (ITB) RESPONSE INSTRUCTIONS

REV: 01/14/10

1. TO SUBMIT A RESPONSIVE BID, READ THESE INSTRUCTIONS, ALL TERMS, CONDITIONS AND SPECIFICATIONS.
2. BID ENVELOPES/PACKAGES/BOXES MUST BE IDENTIFIED ON FRONT, PREFERABLY LOWER LEFT CORNER AND BE VISIBLE WITH THE BID NUMBER AND OPENING DATE. EACH INDIVIDUAL BID (IDENTIFIED BY A UNIQUE BID NUMBER) MUST BE SUBMITTED IN A SEPARATE ENVELOPE. RESPONSES TO MULTIPLE BID NUMBERS SUBMITTED IN THE SAME ENVELOPE/COURIER PACKAGE, THAT ARE NOT IN SEPARATE ENVELOPES PROPERLY IDENTIFIED, WILL BE REJECTED. THE DIVISION OF PURCHASING DOES NOT ASSUME RESPONSIBILITY FOR LATE BIDS FOR ANY REASON INCLUDING THOSE DUE TO POSTAL, OR COURIER SERVICE. BID RESPONSES MUST BE IN THE DIVISION OF PURCHASING OFFICE PRIOR TO THE "RECEIVE DATE AND TIME" INDICATED ON THE BID.
3. BID RESPONSES (PAGE 1, PRICE SHEET AND ADDENDUMS (WHEN SIGNATURE IS REQUIRED)) MUST BE IN INK OR TYPED ON THIS DOCUMENT. OR EXACT FORMAT WITH SIGNATURES BEING HANDWRITTEN ORIGINALS IN INK (PERSON SIGNING BID, NOTARY, AND NOTARY EXPIRATION), OR THE BID WILL BE REJECTED. UNLESS INDICATED IN THE BID, ALL PRICE PAGES MUST BE COMPLETED AND RETURNED. IF AN ITEM IS NOT BEING BID, IDENTIFY IT AS NB (NO-BID). PAGES SHOULD BE SECURED. THE DIVISION OF PURCHASING DOES NOT ASSUME RESPONSIBILITY FOR MISSING PAGES. FAXED BID RESPONSES WILL NOT BE ACCEPTED.
4. THE UNIT PRICE ALWAYS GOVERNS REGARDLESS OF THE EXTENDED AMOUNT. A UNIT PRICE CHANGE ON A LINE MUST BE INITIALED BY THE PERSON SIGNING THE BID, OR THAT LINE WILL BE REJECTED. THIS INCLUDES A CROSS-OUT, STRIKE-OVER, INK-OVER, WHITE-OUT, ERASURE, OR ANY OTHER METHOD CHANGING THE PRICE.
5. A "NO BID" MUST BE RETURNED TO REMAIN ON A CLASS/SUBCLASS. RETURN PAGE 1 OR NOTIFICATION PAGE MARKED "NO-BID". IDENTIFY IT ON THE ENVELOPE AS A "NO-BID". FAILING TO RESPOND TO 3 ITB'S WITHIN THE SAME CLASS/SUBCLASS WILL AUTOMATICALLY PURGE THE VENDOR FROM THAT CLASS/SUBCLASS. RESPONDING WITH 6 "NO-BIDS" WITHIN THE SAME CLASS/SUBCLASS WILL AUTOMATICALLY PURGE THE VENDOR FROM THAT CLASS/SUBCLASS. A "NO-BID" RECEIVED LATE IS CONSIDERED A NO RESPONSE.
6. THE DIVISION OF PURCHASING IS NOT RESPONSIBLE FOR MISINTERPRETATION OF DATA FAXED FROM THIS OFFICE.
7. THE DIVISION OF PURCHASING REQUIRES AN ORIGINAL AND A MINIMUM OF ONE COMPLETE EXACT COPY (TO INCLUDE SIGNATURE AND NOTARY) OF THE INVITATION-TO-BID RESPONSE. THE ORIGINAL AND THE COPY SHOULD BE SUBMITTED TOGETHER AS A BID PACKAGE. FAILURE TO MARK RESPONSES AS "ORIGINAL" AND/OR "COPY" COULD RESULT IN THE ENTIRE BID RESPONSE BEING REJECTED.
8. AN IMPROPERLY SUBMITTED BID, LATE BID, OR BID THAT IS CANCELLED ON OR BEFORE THE OPENING DATE WILL BE HELD FOR 90 DAYS AND THEN DESTROYED. THE BID MUST BE RETRIEVED DURING REGULAR WORK HOURS, MONDAY - FRIDAY, EXCEPT STATE HOLIDAYS. AFTER THE BID IS DESTROYED, THE DIVISION OF PURCHASING ASSUMES NO RESPONSIBILITY FOR THE DOCUMENT.

DISQUALIFIED/CANCELLED BID

BIDS THAT ARE IMPROPERLY SUBMITTED OR RECEIVED LATE WILL BE A RESPONSE FOR RECORD, BUT WILL NOT BE RETURNED OR A NOTIFICATION MAILED.

THE FOLLOWING IS A PARTIAL LIST WHEREBY A BID RESPONSE WILL BE DISQUALIFIED:

BID NUMBER NOT ON FACE OF ENVELOPE/COURIER PACKAGE/BOX
RESPONSES TO MULTIPLE BID NUMBERS IN SAME ENVELOPE NOT PROPERLY IDENTIFIED
BID RECEIVED LATE
BID NOT SIGNED/NOT ORIGINAL SIGNATURE
BID NOT NOTARIZED/NOT ORIGINAL SIGNATURE OF NOTARY AND/OR NO NOTARY EXPIRATION
NOTARIZED OWN SIGNATURE
REQUIRED INFORMATION NOT SUBMITTED WITH BID
FAILURE TO SUBMIT THE ORIGINAL BID AND A COMPLETE EXACT COPY

CERTIFICATION PURSUANT TO ACT NO. 2006-557

ALABAMA LAW (SECTION 41-4-116, CODE OF ALABAMA 1975) PROVIDES THAT EVERY BID SUBMITTED AND CONTRACT EXECUTED SHALL CONTAIN A CERTIFICATION THAT THE VENDOR, CONTRACTOR, AND ALL OF ITS AFFILIATES THAT MAKE SALES FOR DELIVERY INTO ALABAMA OR LEASES FOR USE IN ALABAMA ARE REGISTERED, COLLECTING, AND REMITTING ALABAMA STATE AND LOCAL SALES, USE, AND/OR LEASE TAX ON ALL TAXABLE SALES AND LEASES INTO ALABAMA. BY SUBMITTING THIS BID, THE BIDDER IS HEARBY CERTIFYING THAT THEY ARE IN FULL COMPLIANCE WITH ACT NO. 2006-557, THEY ARE NOT BARRED FROM BIDDING OR ENTERING INTO A CONTRACT PURSUANT TO 41-4-116, AND ACKNOWLEDGES THAT THE AWARDING AUTHORITY MAY DECLARE THE CONTRACT VOID IF THE CERTIFICATION IS FALSE.

SPECIAL TERMS & CONDITIONS

VENDOR NAME :

VENDOR NUMBER: -

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INVITATION TO BID

INTENT TO AWARD

EFFECTIVE MAY 1, 2008, THE STATE OF ALABAMA - DIVISION OF PURCHASING WILL ISSUE AN 'INTENT TO AWARD' BEFORE A FINAL AWARD IS MADE. THE 'INTENT TO AWARD' WILL CONTINUE FOR A PERIOD OF FIVE (5) CALENDAR DAYS, AFTER WHICH A PURCHASE ORDER WILL BE PRODUCED. UPON FINAL AWARD, ALL RIGHTS TO PROTEST ARE FORFEITED. A DETAILED EXPLANATION OF THIS PROCESS MAY BE REVIEWED IN THE ALABAMA ADMINISTRATIVE CODE - CHAPTER 355-4-1(14).

ALTERNATE BID RESPONSE

UNLESS STATED ELSEWHERE IN THIS INVITATION-TO-BID (ITB) THE STATE OF ALABAMA WILL ACCEPT AND EVALUATE ALTERNATE BID SUBMITTALS ON ANY ITB'S. ALTERNATE BID RESPONSES WILL BE EVALUATED ACCORDING TO THE REQUIREMENTS AS ALL OTHER RESPONSES TO THIS ITB.

INTERNET WEBSITE LINK'S

INTERNET AND/OR WEBSITE LINKS WILL NOT BE ACCEPTED IN BID RESPONSES AS A MEANS TO SUPPLY ANY REQUIREMENTS STATED IN THIS ITB (INVITATION-TO-BID).

PRODUCT DELIVERY, RECEIVING AND ACCEPTANCE

IN ACCORDANCE WITH THE UNIVERSAL COMMERCE CODE (CODE OF ALABAMA, TITLE 7), AFTER DELIVERY, THE STATE OF ALABAMA HAS THE RIGHT TO INSPECT ALL PRODUCTS BEFORE ACCEPTING. THE STATE WILL INSPECT PRODUCTS IN A REASONABLE TIMEFRAME. SIGNATURE ON A DELIVERY DOCUMENT DOES NOT CONSTITUTE ACCEPTANCE BY THE STATE. THE STATE WILL ACCEPT PRODUCTS ONLY AFTER SATISFACTORY INSPECTION.

SALES TAX EXEMPTION

PURSUANT TO THE CODE OF ALABAMA, 1975, TITLE 40-23-4 (A) (11), THE STATE OF ALABAMA IS EXEMPT FROM PAYING SALES TAX. AN EXEMPTION LETTER WILL BE FURNISHED UPON REQUEST.

INVOICES

INQUIRIES CONCERNING PAYMENT AFTER INVOICES HAVE BEEN SUBMITTED ARE TO BE DIRECTED TO THE RECEIVING AGENCY, NOT THE DIVISION OF PURCHASING

BID RESPONSES AND BID RESULTS

UNEVALUATED BID RESPONSES (NOT BID RESULTS) ARE AVAILABLE ON OUR WEB SITE AT WWW.PURCHASING.ALABAMA.GOV. BID RESULTS WILL BE MADE AVAILABLE FOR REVIEW IN THE DIVISION OF PURCHASING OFFICE, BUT ONLY AFTER THE BID HAS BEEN AWARDED. WE DO NOT FAX OR MAIL COPIES OF BID RESULTS. IF A VENDOR WISHES TO REVIEW BID RESULTS IN OUR OFFICE, THEY SHOULD FAX THEIR REQUEST TO REVIEW THE BID TWO DAYS IN ADVANCE TO THE "BID REVIEW CLERK" AT (334) 242-4419. BE SURE TO REFERENCE THE BID NUMBER.

FOREIGN CORPORATION - CERTIFICATE OF AUTHORITY

ALABAMA LAW PROVIDES THAT A FOREIGN CORPORATION (AN OUT-OF-STATE COMPANY/FIRM) MAY NOT TRANSACT BUSINESS IN THE STATE OF ALABAMA UNTIL IT OBTAINS A CERTIFICATE OF AUTHORITY FROM THE SECRETARY OF STATE. SECTION 10-2B-15.01, CODE OF ALABAMA 1975. TO OBTAIN FORMS FOR A CERTIFICATE OF AUTHORITY, CONTACT THE SECRETARY OF STATE, CORPORATIONS DIVISION, (334) 242-5324. THE CERTIFICATE OF AUTHORITY DOES NOT KEEP THE VENDOR FROM SUBMITTING A BID.

BID IDENTIFICATION

REFERENCE PAGE 2, ITEM 2. DUE TO THE POSTAL SERVICE PUTTING BAR CODE LABELS ON ENVELOPES, IT CONCEALS THE BID NUMBER AND DATE IF THE VENDOR HAS WRITTEN THEM OTHER THAN THE LOWER LEFT CORNER, THEREFORE THE BID WOULD BE REJECTED FOR NOT BEING PROPERLY IDENTIFIED.

SPECIAL TERMS & CONDITIONS

VENDOR NAME :

VENDOR NUMBER: -

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INVITATION TO BID

AWARD:

AWARD WILL BE MADE "ALL OR NONE" TO THE LOWEST RESPONSIBLE BIDDER MEETING ALL SPECIFICATIONS.

CERTIFICATION OF INSPECTION:

THIS STATEMENT CERTIFIES THE VENDOR HAS INSPECTED THE FACILITY/AREA LISTED HEREIN AND IS AWARE OF ALL REQUIREMENTS, TERMS AND CONDITIONS OUTLINED. TO VALIDATE THIS CERTIFICATION, THE VENDOR AND AGENCY MANAGEMENT (DIRECTOR, MANAGER, SUPERVISOR ETC) MUST SIGN BELOW. THIS SIGNED STATEMENT MUST BE RETURNED WITH THE BID, OR THE BID WILL BE REJECTED.

TO MAKE AN APPOINTMENT FOR SITE VISIT, CONTACT:

MR. LARRY MACE 334-213-2836

VENDOR'S SIGNATURE: _____ DATE: _____

AGENCY'S SIGNATURE: _____ DATE: _____

TITLE: _____

F.O.B. DESTINATION:

F.O.B. DESTINATION IS THE LOCATION WHERE MERCHANDISE IS DELIVERED AND UNLOADED ON A RECEIVING DOCK, IF AVAILABLE, TO ANY STATE OR LOCAL GOVERNMENT AGENCY AND THE CHANGE OF TITLE TAKES PLACE. THE VENDOR IS LIABLE FOR FREIGHT CHARGES, RISK OF LOSS OR DAMAGE TO THE MERCHANDISE UP TO THE DESTINATION.

PRORATION:

ANY PROVISION OF A CONTRACT RESULTING FROM THIS BID TO THE CONTRARY NOTWITHSTANDING, IN THE EVENT OF FAILURE OF THE STATE TO MAKE PAYMENT HEREUNDER AS A RESULT OF PARTIAL UNAVAILABILITY, AT THE TIME SUCH PAYMENT IS DUE, OF SUCH SUFFICIENT REVENUES OF THE STATE TO MAKE SUCH PAYMENT (PRORATION OF APPROPRIATED FUNDS FOR THE STATE HAVING BEEN DECLARED BY THE GOVERNOR PURSUANT TO SECTION 41-4-90 OF THE CODE OF ALABAMA 1975), THE CONTRACTOR SHALL HAVE THE OPTION, IN ADDITION TO THE OTHER REMEDIES OF THE CONTRACT, OF RENEGOTIATING THE CONTRACT (EXTENDING OR CHANGING PAYMENT TERMS OR AMOUNTS) OR TERMINATING THE CONTRACT.

DESCRIPTIVE LITERATURE:

THE BRANDS AND MODEL NUMBERS REFERENCED PROVIDE A LEVEL OF QUALITY, AND UNLESS OTHERWISE SPECIFIED, ARE NOT RESTRICTIVE. VENDORS BIDDING ALTERNATE ITEMS MUST PROVIDE COMPLETE DESCRIPTIVE/TECHNICAL LITERATURE FOR CONSIDERATION AND EVALUATION WITH THEIR BID, AND WITH THE BID COPY PER ITEM NUMBER 7 ON PAGE 2. REFERENCE TO LITERATURE WITH A PREVIOUS BID WILL NOT SATISFY THIS REQUIREMENT. FAILURE TO PROVIDE THE REQUIRED LITERATURE WILL RESULT IN THE REJECTION OF THE BID. PHYSICAL INSPECTION AND OPERATIONAL EVALUATION MAY ALSO BE REQUIRED WITHOUT COST OR OBLIGATION TO THE STATE OF ALABAMA.

REQUESTED INFORMATION:

ANY ADDITIONAL INFORMATION REQUESTED FROM A VENDOR MUST BE FURNISHED WITHIN FIVE (5) DAYS FROM RECEIPT OF REQUEST.

PRICE SHEET

VENDOR NAME :

VENDOR NUMBER: -

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OPEN DATE : 08/03/10 TIME: 10:00 AM

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INVITATION TO BID

LINE NO.	COMMODITY/SERVICE DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
UNLESS SPECIFIED OTHERWISE BELOW:					
SHIP TO: 011001 / 011M01					
STATE HEALTH DEPARTMENT					
BUREAU OF CLINICAL LABORATORIES					
8140 AUM DRIVE					
MONTGOMERY AL 36117					
00001	COMMODITY CODE: 840-82-061101 DVR SYSTEM FOR INSTALLATION AT THE BUREAU OF CLINICAL LABORATORIES, 8140 AUM DRIVE, MONTGOMERY, AL 36117 PER SPECIFICATIONS ATTACHED TO INVITATION TO BID 10-R-2219847	1	EA		

PRICE TO INCLUDE COMPLETE INSTALLATION,
SETUP AND TESTING OF SYSTEM. DVR SYSTEM
MUST BE COMPATIBLE WITH(3)THREE EXISTING
CAMERAS AND ALLOW FOR AT LEAST(5)FIVE
NEW CLIENTS.
AN ON-SITE VISIT IS REQUIRED PRIOR TO
BIDDING. CERTIFICATE OF INSPECTION FORM
IS TO BE COMPLETED AND RETURNED WITH BID

MFR: _____ MODEL: _____

!!!!!!! VENDORS TAKE NOTICE !!!!!!!!
STATE PURCHASING REQUIRES AN ORIGINAL
BID AND ONE EXACT COPY OF THE BID. COPY
OF THE BID MUST INCLUDE COPY OF ANY
ATTACHMENT INCLUDED WITH THE ORIGINAL
BID. FAILURE TO DO SO AS SPECIFIED ON
PAGE TWO (2) OF THIS INVITATION TO BID
WILL RESULT IN THE REJECTION OF YOUR BID
!!

PAGE TOTAL

BID TOTAL

This bid is for a DVR system for installation at The Bureau of Clinical Laboratories, 8140 AUM Drive, Montgomery, AL 36117.

The final price is to include complete installation, setup, and testing of system. DVR system must be compatible with three (3) existing cameras and allow for at least five (5) view clients. Vendor must make an on-site visit to view existing cameras and DVR system prior to submitting a bid. Contact Larry Mace at 334-213-2836 to make an appointment.

GENERAL

- A. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer's system.
- B. All systems and components shall have been thoroughly tested and proven in actual use.
- C. All systems and components shall be provided with the availability of a toll free (U.S. and Canada), 24-hour technical assistance program (TAP) from the manufacturer. The TAP shall allow for immediate technical assistance for either the dealer/installer or the end user at no charge for as long as the product is installed.
- D. All systems and components shall be provided with a one-day turn around repair express and 24-hour parts replacement. The repair and parts express shall be guaranteed by the manufacturer on warranty and non-warranty items.

DIGITAL VIDEO RECORDER

- A. The digital video recorder (DVR) shall provide a high-quality recorder capable of storage and playback of images from 16 camera inputs. The DVR shall also provide a simultaneous refreshing recording rate up to 480 images per second (NTSC) at CIF resolution with a DVD-RW as standard equipment. The 16-channel base unit shall be expandable to add an additional 16 camera inputs to provide an optional 32 channel DVR. The DVR shall be capable of storage and playback of audio from 2 built-in audio inputs. The unit shall be expandable to provide 1 audio input for each video channel for the base 16-channel units and the optional 32-channel units. (Optional audio cards disable the 2 built-in audio inputs.) The DVR shall have the ability to provide bidirectional audio to one remote client at a time so that the server may listen to audio as it is being recorded at a remote station.
- B. The server unit shall provide connection to a primary and secondary monitor, and include dual display for as many as 72 local or remote cameras simultaneously. The secondary dual display output shall be switch-selectable to connect to a VGA (DB15) or analog (BNC) monitor. The unit shall also provide one composite monitor output for multiplexed output for as many as 16 local cameras in a single, 2 x 2, 3 x 3, or 4 x 4 view. Camera views shall be configurable in multiple sequences with independently set dwell times and shall have the ability to interleave alarm or motion events into the video sequences.
- C. The unit shall be able to support as many as 16 ATM/POS devices, synchronously record transaction data received from each ATM/POS device into a text database, and record the associated video of that transaction into the DVR's database. The user shall be able to search transaction video associated with transaction data by ATM/POS device name, data, transaction type, specific text within a transaction, or transaction exception.
- D. The DVR server shall include a health check system that monitors certain server CPU components, as well as the operating temperature of each internal hard drive. Health check administration shall allow the modification of some components' operational limits. If a component functions outside of the operating limit, the server shall display an alert on the server main monitor and connected remote client monitors. The details for the error message

and the error log shall specify whether the condition relates to a CPU or hard disk drive condition.

- E. The unit shall provide triplex operation for simultaneous recording while viewing live and recorded video on the same screen.
- F. The DVR shall possess a watchdog system that monitors the system and automatically reboots the system should it lock-up or fail to operate.
- G. The DVR shall utilize a Windows® XP Embedded operating system. The unit shall provide watermarking of each video frame, provide 8, 16, 24, and 32 inputs for external alarms, video motion detection, and scheduled event recording. Remote software shall be provided at no additional cost, for operation using PC, Web, and Pocket PC handheld devices. An Emergency agent application shall be included to provide alarm notification at any connected PC and shall not require the installation of the DVR's PC client software.
- H. The DVR shall meet or exceed the following design and performance specifications.

ELECTRICAL/VIDEO SPECIFICATIONS

A. Input Voltage	100 to 240 VAC \pm 10%, 50/60Hz, autoranging	
B. Power Consumption	Maximum 350 W	
C. Signal System	NTSC/PAL	
D. Operating System	Windows XP Embedded only	
E. Recording Resolutions	<u>NTSC</u>	<u>PAL</u>
	320 x 240	320 x 288
	640 x 240	640 x 288
	640 x 480	640 x 576
	352 x 240	352 x 288
	704 x 240	704 x 288
	704 x 480	704 x 576
F. Recording Modes	Continuous, motion detection, alarm activation, or scheduled recording, and ATM/POS	
G. Internal Storage	Hard drive with 250, 500, 750, 1000, 1500, 2000, 2250, or 3000 GB of storage	
H. External Storage	RAID 5 storage of 2.25, 4.5, 6.75, or 9 TB	
I. Compression	Pelco engineered	
J. Frame Rate	<u>NTSC</u>	<u>PAL</u>
	1. CIF	400 ips
	2. 2CIF	200 ips
	3. 4CIF	100 ips
K. Video Inputs	8/16/24/32 (looping with automatic termination)	
L. VGA Outputs	1 VGA (DB15)	
	Switch-selectable VGA (DB15) or analog (BNC) output	
M. Hardware Watchdog System	A hardware device to monitor the system clock for Windows lockup; upon lockup of the system the recorder shall automatically reboot without losing any of the programmed settings	
N. Password Protection	4 user levels of protection for setup functions, operation, and system exiting; each level shall have user-assignable features per user level and offer multiple users per level	
O. Motion Detection	Built-in motion detection for each camera to start recording or to increase the recording rate of the system	

P. Motion Areas	Selectable detection area and sensitivity for each camera; motion test pattern for sensitivity
Q. Languages	English, Spanish, German, French, Italian, Portuguese, Russian, and Polish
R. Alarm/Motion Activation	Alarm input will start the unit recording or if already recording, can increase the recording rate and image quality
S. Pre-Alarm/Motion Recording	Records images for up to 60 seconds before the alarm sensor is activated or up to 15 minutes with optional 512 MB RAM upgrade; (pre-alarm time estimate is based on 16-channel recording at a resolution of 320 x 240 CIF and a frame rate of 5 ips)
T. Bandwidth Throttling	Network throttling of transmitted video from 64 KB to 10 MB
U. Alarm History Log	Available through a query
V. Alarm Input Terminals	8/16/24/32 (user-selectable, N.O./N.C.)
W. Analog Video Outputs	1 (2 with 16-channel expansion kit)
X. Relay Output Terminals	8/16/24 (user-selectable, N.O./N.C.)
Y. Relay Contact Ratings	
Rated (Resistive) Load	0.5 A at 120 VAC or 1 A at 24 VDC
Z. Motion Activation	When a unit is in scheduled time recording and a camera detects motion or an alarm is activated, the system shall begin recording the event or increase recording speed to the configured motion or alarm frame rate
AA. Remote Control	Full remote control operation of pan, tilt, and zoom (PTZ) functions through TCP/IP network with PC or Web client
AB. LAN/WAN Connection	Software and hardware is provided for viewing and controlling DVR over the network, including an exclusive server-to-server connection feature
AC. Video Quality	High-quality video recording of at least VHS grade compared to the original video; supports NTSC or PAL video
AD. Color Palettes	Minimum of 16 million color palettes
AE. Gray Scale	256 shades
AF. Backup	A scheduled backup management system is provided to back up data to external devices that are mapped to the server (CD, NAS or other storage devices) without interrupting hard disk recording
AG. Hard Disk Drives	250 GB to 3 TB on board storage capability
AH. Programming	On-screen programming and operation through a keyboard or mouse
AI. Digital Zoom	Digital zoom of the image on the screen during playback modes
AJ. Authentication	Software is provided for image verification of each image recorded
AK. On-line Help system	Provides a built-in help system containing the information manuals needed for faster reference by the user, at both the server and remote client
AL. View Favorites	Provides a mechanism to bookmark and name certain screen configurations and retrieve these by name
AM. KBD300A Keyboard Support	Enables control of as many as 80 cameras connected to 5 servers from a single server-attached keyboard
AN. Digital Zoom Indicator	Zoom functions in playback mode and provides a zoomed indicator up to 6X, and then returns to original resolution
AO. Instant Playback Feature	Provides the option of a forced write to internal disk storage and allows users immediate playback of events

AP. Video Loss Detection	Video loss events are linked to alarms that can trigger a relay and send an email notification, and events can be triggered by two distinct modes: loss of synchronization and low level of video
AQ. ATM/POS Single-Mode	Data interface support for up to 4 ATM/POS devices per server
AR. ATM/POS Multimode Support	Data interface support for up to 16 ATM/POS devices per server
AS. Audio Listen-in	Allows client to listen to live or recorded events on one system at a time
AT. Software Upgrades	Upgrades are provided during warranty period at no charge
AU. System Health Check	Monitors and provides an error message if CPU components or hard disk drive operating parameters exceed their configured thresholds
AV. API Integration	Published APIs are available for application integration to DVR

MECHANICAL SPECIFICATIONS

A. Connectors	
1. BNC	Video inputs and outputs
2. 6-pin mini-DIN	PS/2 mouse and keyboard
3. DB9	COM 1
4. DB15	VGA Port
5. RJ-45	10/100/1000 Megabit Ethernet port and RS-485/RS-422 ports on PTZ control (4)
6. USB	6 high-speed USB 2.0 ports (2 front, 4 back)
B. Audio Connectors	2, 2-channel (right/left) miniature phone jacks for line in and microphone in; 1 miniature phone jack for audio output
C. Optional Audio Connectors	
1. Audio Decoding	GSM610 Wave Format
2. Audio Bit Rate	8 Kbps
3. Audio Levels	
a. Input	Line-level input
b. Output	Line-level output
4. Audio Connectors	Female RCA
a. Standard Inputs	2
b. Option Inputs	8 for the 8-channel unit; 16 for the 16-channel unit (optional Audio cards disable the standard audio inputs)
c. Audio Outputs	1

PHYSICAL SPECIFICATIONS

A. Operating Temperature	50° to 95°F
B. Relative Humidity	Maximum 80%, noncondensing
C. Optical Drive	DVD-RW
D. Antivirus Software	AVG Anti-Virus Free Edition Version 7.5 Symantec AntiVirus™ Corporate Edition Version 10.1.6 McAfee® VirusScan® Plus with SiteAdvisor™

REMOTE CLIENT REQUIREMENTS

Recommended PC Requirements

A. Processor	Intel®, Pentium 4®, with 2800 MHz minimum processor speed
B. Memory	256 MB RAM

- | | |
|----------------------------------|---|
| C. Video | AGP or PCI-e VGA card with minimum 64 MB video RAM (nonshared memory), 1024 x 768 or 1280 x 1024 display resolution, and DirectX® 8.1 application programming interface |
| D. Monitor | SVGA or XGA with 1024 x 768 or 1280 x 1024 resolution |
| E. Operating system | Windows 2000 with Service Pack 4 or Windows XP Professional DirectX 8.1 or later
Microsoft® Internet Explorer® 5.5 or later
500 MB free disk space |
| F. Mobile PDA Client Application | A Pocket PC with Microsoft PPC 2002 or later,
Intel XScale® CPU with minimum 64 MB of memory |

CERTIFICATIONS

- A. CE and FCC, Class A
- B. CE and FCC, Class B
- C. UL/cUL

PROJECT SPECIFIC REQUIREMENTS

DVR must be 16-channels with minimum 3TB internal storage capacity. Selected DVR must also have the capability to record each camera at 10IPS on 4CIF resolution.

WARRANTY

3 year parts and labor